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ABSTRACT

-A technique and apparatus to provide status tracking of presence and/or location of a mobile, wireless device to a requesting entity even outside of a particular wireless system. This allows wireless service providers the ability to monitor and log changes in the status of mobile stations within and/or outside their networks. Embodiments are disclosed wherein presence and/or location information is provided to entities outside of a particular servicing wireless network using the mechanisms of call processing components of a mobile network (e.g., call setup procedures), and using standard mechanisms currently available to any appropriately conforming Mobile Switching Center (MSC) element. In one disclosed embodiment, a wireless chat tracking system is implemented which utilizes a change in mobile registration status to automatically notify a chat group system outside the wireless network of current status information activity regarding a relevant device, e.g., registration activity or inactivity timeout. In the wireless chat automatic status tracking system, a registration notification (REGNOT) message is either explicitly forwarded or copied to an external IP based application (e.g., to a mobile chat group system). The change in mobile registration is communicated via a suitable signaling link (e.g., SS7, TCP/IP, etc.) between a Home Location Register (HLR) and the chat group system. Therefore, instead of a conventionally closed system using SS7 messages, REGNOT messages are pushed out over TCP/IP connections to external applications (e.g., chat servers) to automatically notify the external system of the location of a particular user.